



"Oliver" Wood Trimmers

The Most Complete Line of Wood
Trimmers in the Entire World

Manufactured By
Oliver Machinery Co.
Grand Rapids, Mich., U. S. A.

BRANCH OFFICES:
New York Chicago St. Louis Minneapolis Los Angeles San Francisco
Seattle Salt Lake City Denver Phoenix Manchester, Eng.



Specimens of work done on "Oliver" Wood Trimmers

The utility of "Oliver" Wood Trimmers in pattern shops and other fine wood working plants is universally recognized. They are great money savers, no pattern shop should be without "Oliver" Wood Trimmers.

These trimmers are adjusted to cut square, vertically and horizontally, and warranted to read absolutely true to their graduations. The correct position of each graduation for the triangle, miter, hexagon, octagon, and square upon both the obtuse and acute angles is determined by actually fitting three pieces of wood together for the triangle, four for the miter, six for the hexagon, eight for the octagon, etc. When the joints on these come absolutely perfect the hole is reamed in the bed into which the spring plunger fits and thus the angle is located positively and accurately.

CODE, CAPACITY, WEIGHT, ETC.

Code	Machine	Length of Stroke Inches	Depth of Cut Inches	Trimming Area Sqr. Inches	Domestic Weight Pounds	Foreign Weight Pounds	Measure Cubic Feet
Famine	No. 0 —Small Trimmer	6	3	15	35	35	1
Famnic	No. 0 —Nickel Plated	6	3	15	35	35	1
Fasces	No. 2 —Universal Trimmer	15	5 $\frac{3}{4}$	70	430	510	12
Fasting	No. 3 —Universal Trimmer	20 $\frac{3}{4}$	7 $\frac{1}{2}$	135	610	730	24
Femur	No. 9-A—For Bench	8 $\frac{1}{2}$	4 $\frac{3}{4}$	25	105	115	3 $\frac{1}{2}$
Fen	No. 9-B—With Column	8 $\frac{1}{2}$	4 $\frac{3}{4}$	25	250	262	9
Fennel	No. 10 —Full Universal Trimmer..	26 $\frac{1}{2}$	9	198	1400	1510	32

"Oliver" Wood Trimmers

Specialty

We are giving the same careful attention to the pattern shop needs in Wood Trimmers that has characterized our efforts in other tools, and to-day we take pride in the almost universal recognition of our Trimmers as the most excellent in design, most perfect in construction, most convenient in adjustment, and most durable and efficient.

Quality Tools

The old style machines have given place to the new and improved tools, and the up-to-date ideas embodied in their construction indicate the progressive thought and experience that we have given them. The name "Oliver" cast into the frame of a Wood Trimmer means more than the name of the maker. It stands for correct methods in every detail of our large and expanding business of selling trimmers and it means "Quality."

Trade Increasing

Unscrupulous imitators of our machines have endeavored to foist upon the users of this class of machinery, their poorly constructed and cheap products, and occasionally they have succeeded, but we are turning out more "Oliver" New Style Trimmers to-day than ever.

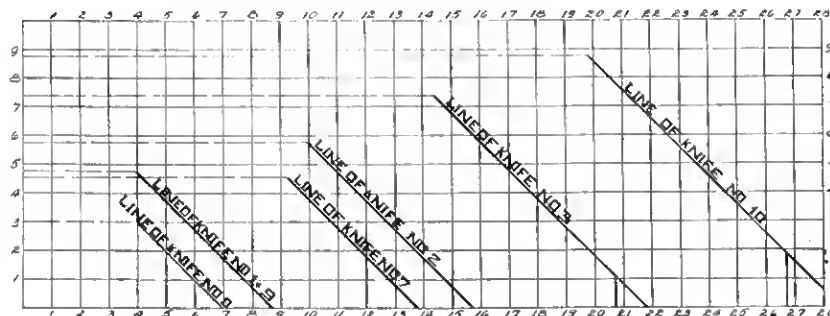
Scientific Construction

Our factory has the most complete equipment in the United States for the scientific construction of wood-working machinery and we feel sure the sentiment will be heartily endorsed by those who have purchased "Oliver Tools", when we claim that all our machinery is constructed on a quality basis.

Selection

To make a proper selection bear in mind that a small machine for the exclusive use of each man together with enough of the larger sizes to care for the heavy work is the ideal and most satisfactory way. For all around general work both large and small, the Nos. 0 or 9 for small work and No. 3 for larger work makes the most useful combination. If you only want one buy a large one, it will work upon both little and large work with equal convenience.

SIZE DIAGRAM



Diagram

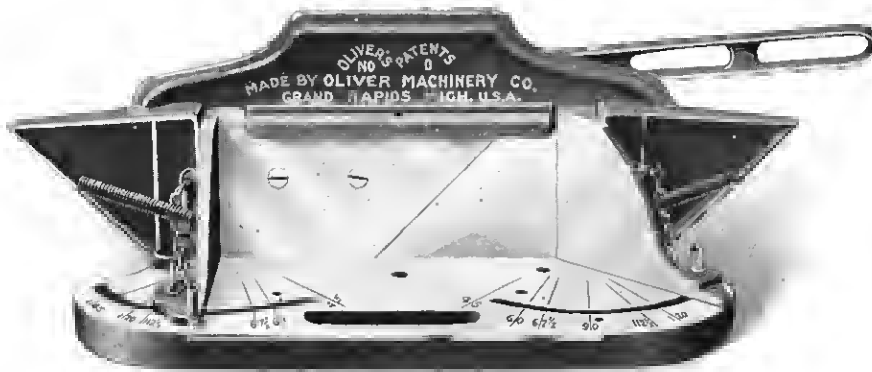
Above diagram will prove of service to intending purchasers. Each square represents one square inch, and the exact capacity of each machine will trim is represented by the black and dotted lines of knives. Thus No. 3 trims $20\frac{3}{4}$ inches long and $7\frac{1}{2}$ inches deep. Below we give the capacities of the several machines in both the English and metric systems:

No.	Length of Stroke		Depth of Cut		Superficial Trimming Area		No.
	Inches	M. M.	Inches	M. M.	Square Inches	Square Centimeters	
0	6	152.40	3	76.20	13	83.8711	0
2	15	381.00	$5\frac{3}{4}$	146.05	70	451.6138	2
3	$20\frac{3}{4}$	527.05	$7\frac{1}{2}$	190.50	135	870.9695	3
9	$8\frac{1}{2}$	215.90	$4\frac{3}{4}$	120.65	25	161.2906	9
10	$26\frac{1}{2}$	673.10	9	228.60	198	1277.4427	10

Styles

We have these machines arranged for the workman's bench, or we mount them on floor columns. The No. 0 machine cuts acute angles only, but all other sizes cut both acute and obtuse angles. Our No. 10 Large Trimmer is a new style machine with the interesting feature of vertically adjusting table.

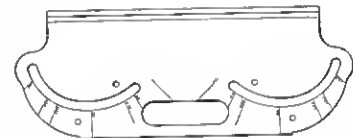
No. O "Oliver" Improved Wood Trimmer THE "MIGHTY" LITTLE FELLOW



"Oliver" No. O Trimmer Showing Left Hand Gauge Set at 50 Degrees.
Right Hand Gauge Set at 135 Degrees.

Adaptation

This size of wood trimmer is adapted for the exclusive use of each pattern maker or cabinet worker and is strongly recommended for all bench service where the pieces do not exceed 5 inches x 2 inches.



No. O Wood Trimmer, 45 to 135 degrees

Capacity

This trimmer will cover the acute angles between 45 and 90 degrees and the obtuse angles between 90 and 135 degrees. The length of stroke is 6 inches and the depth of cut is 3 inches. The superficial area as removed by knife is 15 square inches.

Gauges

These are accurately machined and fitted with locking devices and cover the various angles from 45 to 135 degrees. The most important angles are located by taper pins.

Gear and Rack

Located as these are, above the path of the shavings, they keep clean and act freely. They are made of steel and the teeth machine cut.

Knife

This is a solid steel cutter, double edged, accurately tempered and tested. This is warranted. An inch and a quarter may be worn off either end without detriment to its working qualities.

Bed

This is 15½ inches long and 6 inches wide, properly machined and graduated for the important angles. Reamed holes receive the taper pins for locating the gauges.

CODE, WEIGHT, ETC.—SEE FRONT COVER

Wood Trimmer Knife Vise

We present herewith a handy device for users of Wood Trimmers. It's a case of "necessity the mother of invention." We use them ourselves; needed something of the kind and evolved this. This Knife Vise, together with our patent two-faced, genuine Turkish Emery Oil Stone, reduces the time required and makes comparatively easy a heretofore difficult task.



No. 143 "Oliver" Wood Trimmer Knife
Vise. Code, Pama.

Oliver Machinery Co.

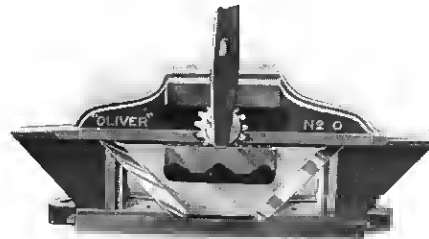


Grand Rapids, Mich.

"Oliver" No. 0 Plaster Model Trimmer



Front View



Rear View

Adaptation

The "Oliver" No. 0 Plaster Model Trimmer fills the long felt want for a machine that will trim and finish plaster models used by Orthodontists. A set of models can actually be finished by this wonderful machine in ten minutes—an achievement unequalled by any other method. Most of the annoyance of handling plaster by the old methods is eliminated. You get accurately trimmed models—the proper angles are established by the swinging gauges of the machine. All Orthodontists know that carefully trimmed models on display in an operating room will insure the patient's confidence in the operator; plaster models that are intended to be used for display or record should be carefully finished, because the appearance of a model is usually an index to the skill of the operator.

Construction

We have adhered to the policy of producing the best that skill and precision tools are capable of.

Finish

Offered in the regular black painted finish or nickel plated at an extra cost. When ordering state which is desired.

Bed

Is 15½ inches long by 6 inches wide, properly machined and graduated for the important angles. Reamed holes receive taper pins for locating the gauges.

Gauges

The two gauges—right and left—are accurately machined and fitted with locking devices and cover various angles from 45 to 135 degrees.

Knife

This is a solid steel double edged cutter, accurately tempered and tested. Will last a life time. Upper end fits in a groove; lower end is fastened to a steel slide long enough to always cover the groove in the bed to prevent plaster getting into same and clogging.

Gear and Rack

Are located above the path of the shavings, hence keep clean and act freely. They are made of steel and the teeth are machine cut.

Capacity

Length of stroke 6 inches, depth of cut 3 inches, superficial area removed by knife at one stroke 15 square inches. Will trim all acute angles from 45 to 90 degrees and all obtuse angles from 90 to 135 degrees at either right or left end of the trimmer.

Equipment

Trimmer complete with knife and operating hand lever.

CODE, WEIGHT, ETC.

Code	Description	Net Weight	Boxed Weight	Box Measure
Famine	No. 0 Trimmer, regular black finish.....	25 lbs.	35 lbs.	1 cu. ft.
Famnic	No. 0 Trimmer, nickel plated finish.....	25 lbs.	35 lbs.	1 cu. ft.

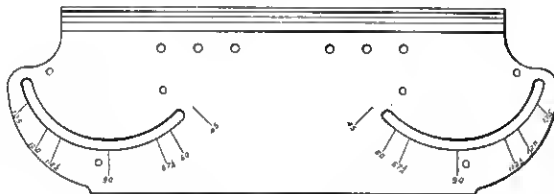
No. 9 "Oliver" New Style Wood Trimmer

Capacity

Will trim any angles from 45 to 135 degrees, has depth of cut $4\frac{3}{4}$ inches, length of stroke $8\frac{1}{2}$ inches, and superficial cutting area of 25 square inches.



No. 9-A "Oliver" New Style Wood Trimmer
For mounting on a bench.



No. 9 Wood Trimmer. 45 to 145 degrees.



No. 9-B "Oliver" New Style Wood Trimmer
Mounted on a Column.

Bed

This is one solid casting, $10\frac{3}{4}$ inches x 26 inches long, heavily ribbed for rigidity, and graduated at each end on 45, 60, 67, 90, $112\frac{1}{2}$, 135 degree lines.

Knife Carriage

This carries two sets of bolt holes to allow the knives to be moved forward, doubling their usefulness. All sliding parts are milled and scraped.

Knives

Made of special steel purposely ground slightly concave. Always sharpen on the beveled side only.

Gauges

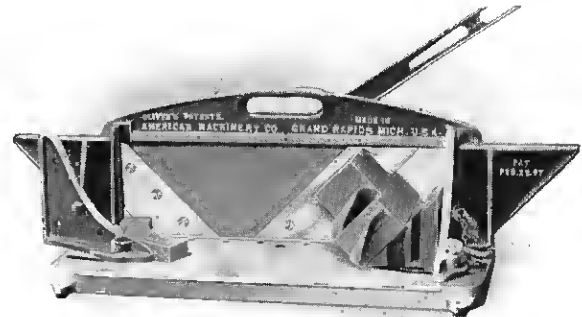
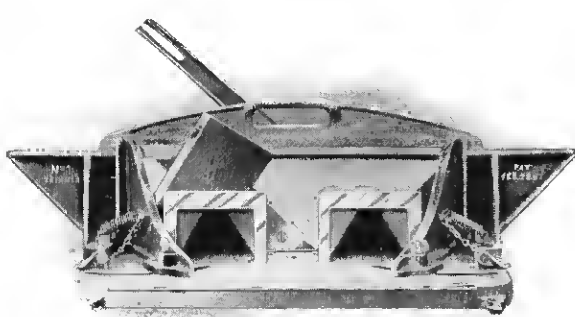
They rest flatly on the bed; are held back by springs, are easily clamped at any angle; may be accurately located by taper pins at the principal angles—45, 90, 135 degrees and move through angular paths whose centers are exactly in lines formed by points of the gauges with the cutting edge of the knives.

Driving Mechanism

A malleable iron lever turns a pinion with cut teeth which meshes into steel cut racks—upper one fastened back of frame, lower one fastened to knife carriage out of the way of shavings.

CODE, WEIGHT, ETC.—SEE FRONT COVER

Triangle Gauges for "Oliver" Wood Trimmers



Triangle Gauges

These are furnished with our wood trimmers when they are called for. There are many who never use them so their cost in such cases is deducted from the price of the machine.

Uses and Advantages

We have found them desirable in working tenons, half laps, wide miters and compound angles, etc. A workman will often find other special things in his particular work in doing which these attachments enable him to save time and trouble.

Tenons and Half Laps

To trim the square shoulder of a tenon or half lap, place the attachment (as shown) against the gauge, located at 90 degrees. The lower corner of the wood must then rest on the bed of the Trimmer. If the shoulder is not desired to be square, the knife can be brought to bear at any angle by adjusting the wood upon the face of the Triangle Gauge.

Wide Miters

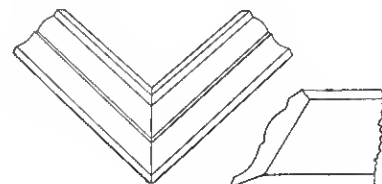
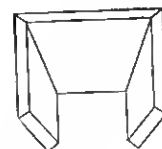
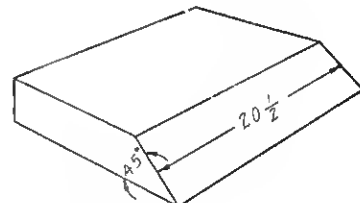
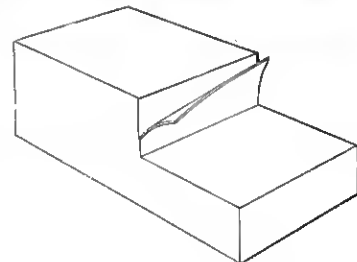
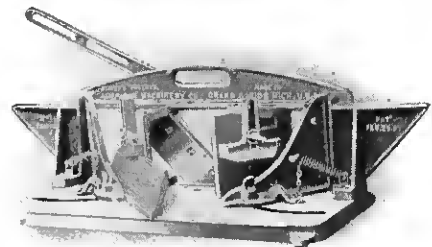
In order to trim a miter the length of the cut, utilize the attachments similarly to those illustrated, but with the gauges still located at the square. Small tongues on the triangles fit into a groove adjacent to the knives to keep them in position, consequently no screws are required.

Compound Angles

When a piece must be made to the shape of a hopper a compound angle must be trimmed. This can be accomplished as illustrated, one of the angles being 45 degrees. The degree of pitch is determined by the regular gauge for one angle and the triangle for the other.

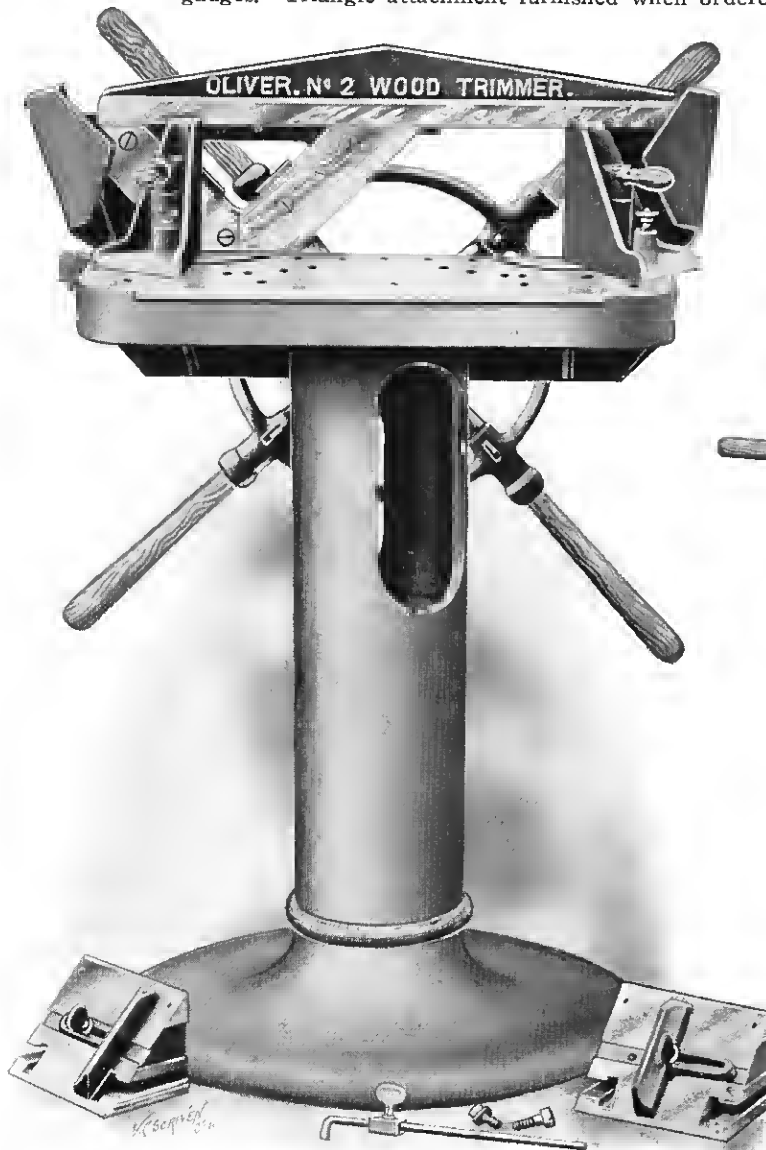
Crown Mouldings

If set on end, the attachments slide in the groove to and from the regular gauge. Set the latter at 45 degrees (if the mould is to be trimmed on the miter) and the cant of the moulding will then indicate the position of the triangle. Secure the latter at the back by the screw provided, which fits any of the tapped holes; adjust the teepiece; pull the lever, and a perfect compound miter will be obtained.

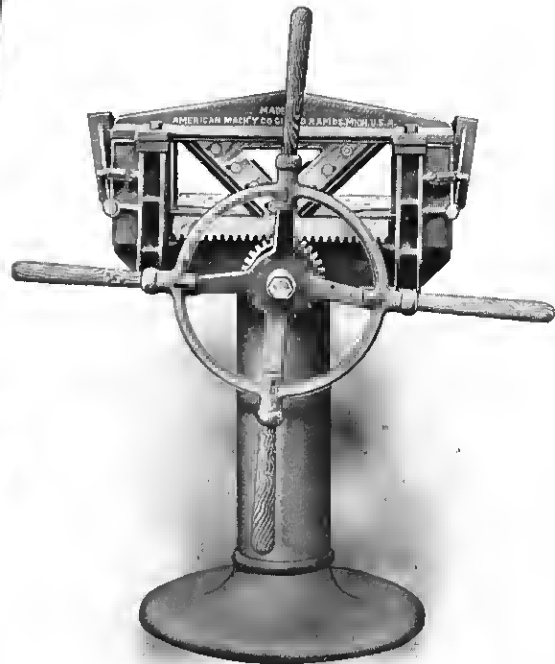


No. 2 "Oliver" Universal Wood Trimmer

- Adaptation** This is the smallest size "Universal" Wood Trimmer made. Its particular field is where great accuracy and universal adaptation is desired without the necessity of a large capacity.
- Quality** Its quality in workmanship and finish is "right", its appointments modern and it has the same standard of excellence as the more expensive machines.
- Details** Graduations on the bed cover 30 to 135 degrees. Segment graduations for circular work. Adjustable bearings for the knives. Automatic location of the gauges at important angles. Four handle operating pilot wheel. Automatic spring knife guards. Cut gear and rack protected from shavings. Adequate provision for wear of knives. Spring stops and taper pins for locating gauges. Triangle attachment furnished when ordered.



"Oliver" No. 2 Wood Trimmer—Front View.



No. 2 Trimmer—Rear View.

CAPACITY

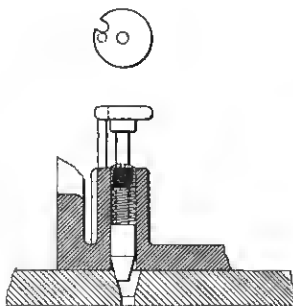
This wonderful machine has length of stroke 15 inches, depth of cut $5\frac{3}{4}$ inches, capacity to trim a superficial area of 70 square inches.

CODE, WEIGHT, ETC.—SEE FRONT COVER

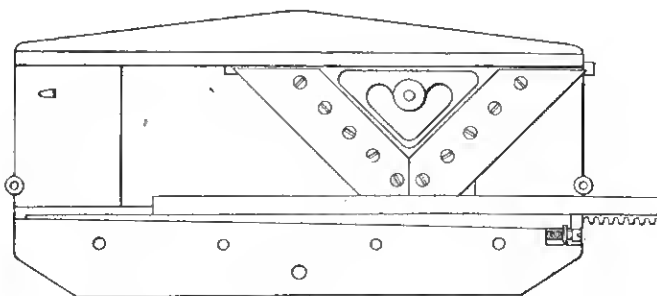
No. 3 "Oliver" Universal Wood Trimmer

OVER 2000 IN USE

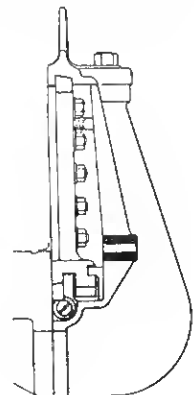
- Design** Great thought and care in designing this wonderful machine resulted in the introduction of new and valuable features that give it a unique place in the pattern shop. Correct proportions insure strength and rigidity. Up-to-date ideas in construction and perfect workmanship establish the unqualified merit of this tool.
- Capacity** We have shown some etchings that indicate the great capacity of the Trimmer. This range gives the tool its value in squaring core-boxes, mitering architraves and other large work. A bright workman will find many uses for the machine that we cannot enumerate here. The maximum stroke is $20\frac{3}{4}$ inches long and $7\frac{1}{2}$ inches deep, giving a superficial area of 135 square inches.
- Bed** This is 34 inches long, 18 inches wide and is made to swivel on its supporting column for convenience in shop location. The graduations cover degrees from 30 to 135 on each side of the bed. Additional graduations are shown for use in fitting segments for circular patterns. Four, six, eight or twelve segments to circles from 6 to 72 inches diameter can be instantly and accurately jointed by using the auxiliary stop gauges.
- Gauges** These are automatically located at the principal angles, i. e., 30, 45, 60, $67\frac{1}{2}$, 90, $112\frac{1}{2}$, 120 and 135 degrees. The etching shows this is effected by a spring that forces a tapered pin into a tapered hole. Accuracy and speed are thus obtained. The gauges can be set at any of the intervening degrees by means of a thumb screw or clamp.
- Adjustable Bearings** By the etchings is shown that adjustment for wear in the sliding knife head. The long taper gib is beveled in breadth so that operating the screw takes up the wear both vertically and laterally. It means a tight bearing all over and accuracy in trimming indefinitely. This is a patent feature found only on the "Oliver" Trimmers.
- Pilot Wheel** For operating the sliding knives we furnish a six spoke wheel so that a down stroke is always obtainable. Convenience and power are its chief characteristics.
- Gear and Rack** The gear rack and working parts are protected from dirt and chips, insuring ease in operation at all times. The gear and rack are of steel and with cut teeth.
- Automatic Knife Guards** These guards protect the knives on both sides whenever they pass beyond the frame. When the knives do not thus project, the guards close up to the machine, thus avoiding both breaking and wasting shop room.
- Auxiliary Gauge Stop** We supply this for use in trimming any number of pieces to exactly the same length, the ends of segments may be trimmed and perfect joints in them made by this same attachment.
- Triangle Gauges** We furnish these attachments when wanted. Compound angles for sprung moldings, mitered corners, truing tenon and rabbet shoulders, etc., can be accomplished by their use.
- Knives** The character of the knives used in a Wood Trimmer is of the utmost importance. Those we furnish are subjected to the closest scrutiny as to material, temper, grinding and finish, and it is a well established fact that the Oliver Knives outlast those of any other make. Knives are warranted. Two series of bolt holes are located to set knives forward when worn, thus doubling their cutting capacity.



Taper Pin Instantly locates the Gauges at any Principal Angle



Showing Taper Gib and Screw take up for wear in knife slide.

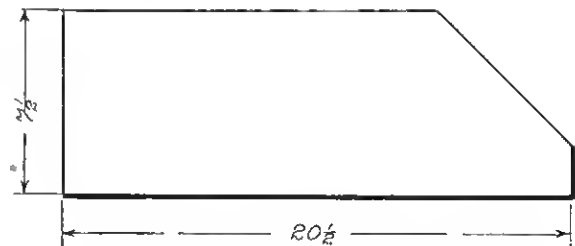




Front View of No. 3 "Oliver" Universal Wood Trimmer



Rear View—No. 3 Universal Wood Trimmer



Showing trimming capacity for No. 3 Trimmer.

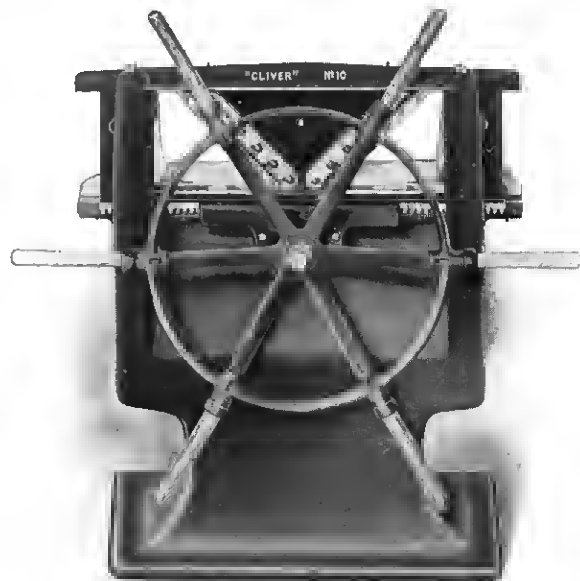
CODE, WEIGHT, ETC.—SEE FRONT COVER

No. 10 "Oliver" Patented Adjustable Wood Trimmer

- Introduction** Some new features have been incorporated in the No. 10 that render it a more general machine than any of its predecessors. The introduction of an adjusting table for distributing evenly the wear along the full length of the knives and dulling the entire knife before re-sharpening is the new feature not found on other types of machines. It has also greater capacity.
- Column and Bed** We make the column in cored form 28 x 37 inches, giving good floor surface. The bed is 18 x 41 inches, graduated at each end from 30 to 135 degrees. Taper pins locate the gauges at all the important angles, viz.: 30, 45, 60, 67½, 90, 112½, 120 and 135 degrees. At the right hand gauge extending across the bed from 4 inches to 16 inches from the knife line are length graduations made in eighth inches.
- Segment Graduation** Graduations are shown for cutting segments for circles from 6 inches to 72 inches in diameter ranging from 4 to 12 segments. Raising screw is mounted on ball bearings.
- Table Gibs** The bed may be raised 5 inches by operating hand wheel and screw at the front. The entire cutting edges of the knives may be thus presented to the work before regrinding.
- Gauges** These are two in number, located one at each end of the bed. The front edges are faced with steel strips and are graduated to eighth inches. They are secured to bed by clamping levers.
- Bridge and Knife Slide** Bridge is cast iron and is bolted to the posts of the main frame. The knife slide is supported in dovetail bearings, and by this means all wear in the slide is readily taken up. It is moved in either direction through cut rack fastened to the outside edge of the slide.
- Knives** These are made from special laid steel, are hollow ground and of correct temper.
- Driving Method** A six point pilot wheel is mounted at the back of the machine and carries a steel cut pinion that meshes into the rack on the knife slide. Revolving this wheel and pinion forces the slide and knives forward.



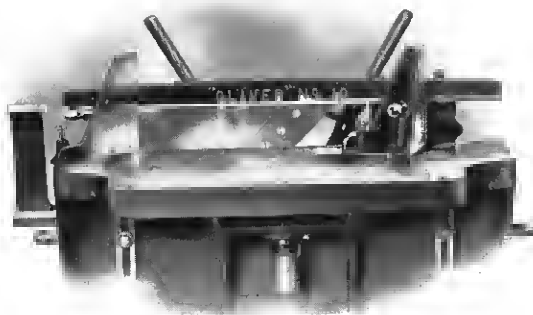
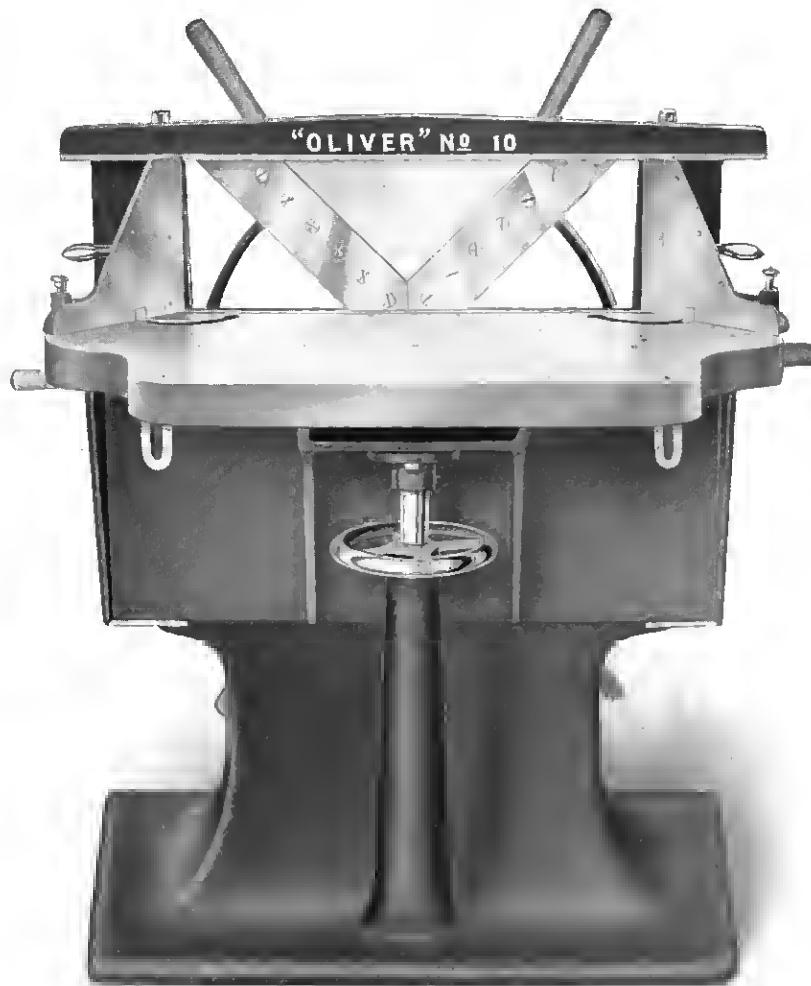
End View: Rigid Construction



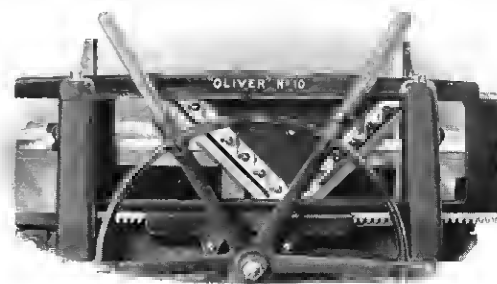
Rear View; Method of Drive and Knife Adjustment

Oliver Machinery Co.  *Grand Rapids, Mich.*

No. 10 "Oliver" Patent Adjustable Wood Trimmer



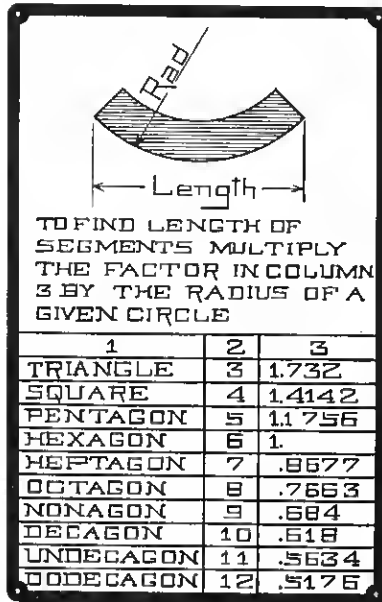
Front View with Bed Elevated to its Highest Position.



Rear View with Bed Elevated to its Highest Position.

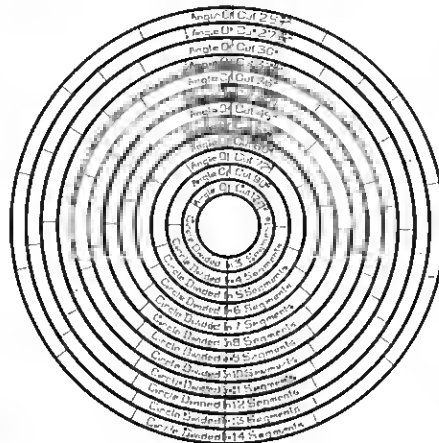
CODE, WEIGHT, ETC.—SEE FRONT COVER

"Oliver" Wood Trimmers—Interesting Special Features

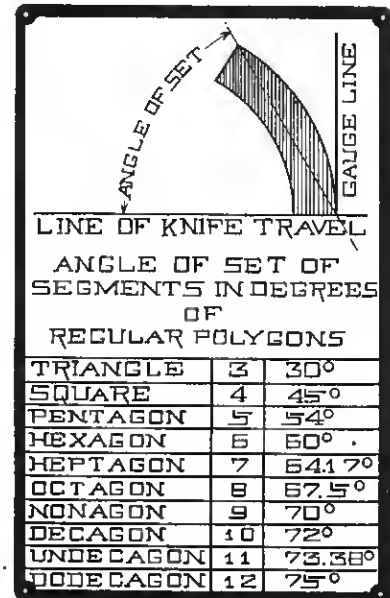


Length of Segments

We aim to serve our Wood Trimmer users in every sense of the word. We supply one of these circular diagrams drawn to a larger scale with each Trimmer sold; one each of the other two diagrams with each Full Universal Trimmer.

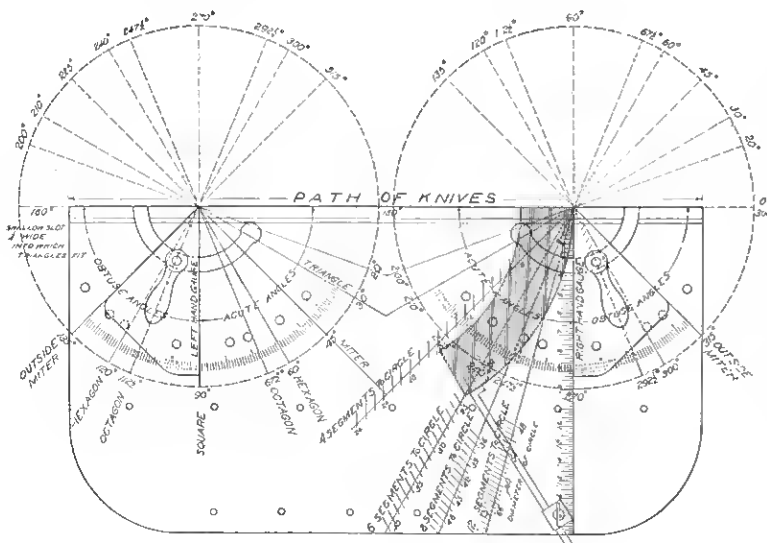


Angle of Cut of Segments



Angle of Set of Segments

Operators of Wood Trimmers sometimes require quick knowledge of the needed length of segments in inches, the angle of set of segments in degrees or the angle of cut in trimming a given number of segments to a circle. Above tables have been prepared by our engineers to indicate at a glance the correct length of segments, the position of segments on the Trimming Table, as well as the angle of cut in trimming a given number of segments to a circle. These diagrams have been worked out only up to 12 and 14 segments to the circle as we find that this covers all ordinary requirements.



This etching illustrates how our full Universal Trimmers, Nos. 2, 3, 9 and 10 are graduated, and the theory upon which they are designed. It will be observed that the gauges cover degrees from 30 to 135 degrees on each side of the bed.

The reason for two gauges is that the one on the right hand is intended to cover one-half the degrees in a circle, and the one on the left hand the other half.

The additional graduations shown are for use in connection with circular pattern work. Four, six, eight or twelve segments to circles of from 6 inches to 72 inches in diameter can be instantly and accurately jointed by using the auxiliary stop-gauges.

The shading represents one of six segments to a 24-inch circle properly adjusted. Trim one end first, then turn end for end, and finish to graduation mark.